

Curriculum Vita of D. Scott Akin
Assistant Professor, Extension/Research Entomologist
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ACADEMIC RECORD

Ph.D. 2004, Mississippi State University (Entomology), Mississippi State, MS;
Dissertation Title: 'Efficacy and Resistance Management Implications of Cotton
Expressing Two Insecticidal Proteins of *Bacillus thuringiensis*'

M.S. 2000, Mississippi State University (Weed Science), Mississippi State, MS; Thesis
title: 'Perennial Weed Control Programs Incorporating Roundup Ready® Technology in
Soybean Production'

B.S. 1998. University of Tennessee at Martin (Plant and Soil Science), Martin, TN.

PROFESSIONAL WORK EXPERIENCE

Assistant Professor (2007-present), Department of Entomology, University of Arkansas;
75% Extension/25% research program focusing primarily on IPM in soybean, cotton, and
other field crops.

Agronomic Research Manager (November 2004-January 2007), Monsanto Company,
Monmouth, IL.

Technology Development Associate/Agronomic Research Manager (April 2004-
November 2004), Monsanto Company, Leland, MS.

Graduate student (full-time), May 2000-April 2004, Department of Entomology,
Mississippi State University, Mississippi State, MS. Research on Bollgard II® cotton and
row-crop IPM.

Graduate student (full time), May 1998-May 2000, Department of Plant and Soil
Sciences, Mississippi State University, Mississippi State, MS. Research on perennial
weed control in Roundup Ready® systems and soybean weed management.

Technical Service Assistant (internship), Summers 1996 and 1997, American Cyanamid
Crop Protection.

PUBLICATIONS

Refereed Journal Articles

Akin, D.S., S.D. Stewart, M.B. Layton, and J.A. Mills. 2011. Efficacy of Cotton Expressing Pyramided *Bacillus thuringiensis* Insecticidal Proteins Against Lepidopteran Pests. *Midsouth Entomologist*. Vol 4, pp 1-13.

Akin, D. S. and D. R. Shaw. 2004. In-season applications of glyphosate for control of redvine (*Brunnichia ovata*) in glyphosate-resistant soybean (*Glycine max*). *Weed Technol.* 18:325-331.

Akin, D. S. and D. R. Shaw. 2001. Purple nutsedge (*Cyperus rotundus*) and yellow nutsedge (*Cyperus esculentus*) control in glyphosate-tolerant soybean (*Glycine max*). *Weed Technol.* 15:564-570.

Cook, D., A. Herbert, D.S. Akin, and J. Reed. 2011. Biology, Crop Injury, and Management of Thrips (Thysanoptera: Thripidae) Infesting Cotton Seedlings in the United States. *J. Integrated Pest Mgt.* Pp 1-9.

Musser, F.R., G.M. Lorenz , S.D. Stewart, R.D. Bagwell, B.R. Leonard, A.L. Catchot, K.V. Tindall, G.E. Studebaker, D.S. Akin, D.R. Cook and C.A. Daves. 2009. Tarnished plant bug (Hemiptera: Miridae) thresholds for cotton before bloom in the midsouth of the United States. *J. Econ. Entomol.* 102:2109-2115.

Musser, F.R., A.L. Catchot, S.D. Stewart, R.D. Bagwell, G.M. Lorenz, K.V. Tindall, G.E. Studebaker, B.R. Leonard, D.S. Akin, D.R. Cook and C.A. Daves. 2009. Tarnished plant bug (Hemiptera: Miridae) thresholds and sampling comparisons for flowering cotton in the midsouthern United States. *J. Econ. Entomol.* 102:1827-1836.

Abstracts and Proceedings (parentheses denotes graduate student)

Akin, D.S., M. Toews, P. Roberts, J. Bacheler, A.L. Catchot, J. Reed, D.R. Cook, J. Gore, J. Greene, A. Herbert, R.E. Jackson, K.C. Allen, D. Kerns, B.R. Leonard, G.M. Lorenz, S. Micinski, D. Reisig, S.D. Stewart, G. Studebaker, and K. Tindall. 2011. Evaluation of automatic insecticide applications following preventative insecticides for thrips. 2011 Proc. Beltwide Cotton Conf. pp 1086-1092.

Akin, D.S., J. Reed, K.C. Allen, J. Bacheler, A.L. Catchot, D.R. Cook, J. Gore, J. Greene, A. Herbert, D. Kerns, B.R. Leonard, G.M. Lorenz, S. Micinski, D. Reisig, P. Roberts, M. Toews, S.D. Stewart, G. Studebaker, and K. Tindall. 2011. Regional survey 2009-2010: Thrips species composition across the upland cotton belt. 2011 Proc. Beltwide Cotton Conf. pp 838-846.

(Howard, J.E.), D.S. Akin, D.R. Cook, S.D. Stewart, and J. Gore. 2011. Effects of simulated threecornered alfalfa hopper (*Spissistilus festinus* Say) injury on soybean yield. Abstract, 1st Annual MEA-MWSS-MAPPAN Joint Meeting. October 24-25, 2011.

(Howard, J.E.), D.S. Akin, D.R. Cook, S.D. Stewart, G.M. Lorenz. And R.W. Wiedenmann. 2011. Effects of simulated threecornered alfalfa hopper (*Spissistilus festinus* Say) injury on soybean yield. Abstract, Arkansas Crop Protection Association Research Conference. November 28-29, 2011.

(Howard, J.E). and D.S. Akin. 2011. Efficacy of selected insecticides for control of tarnished plant bug (*Lygus lineolaris*) in cotton bordering corn. 2011 Proc. Beltwide Cotton Conf. pp 830-834.

Lorenz, G.M., D.S. Akin, G. Studebaker, S.D. Stewart, B.R. Leonard, K. Tindall, A.L. Catchot, J. Gore, D.R. Cook, and F. Musser. 2011. Report on a midsouth regional plant bug efficacy trial 2009-2010. 2011 Proc. Beltwide Cotton Conf. p 1199.

Stewart, S.D., S. Steckel, K. Pearson, G.M. Lorenz, D.S. Akin, and A.L. Catchot. 2011. Insecticide mixing strategies for managing tarnished plant bugs with an emphasis on Diamond®. 2011 Proc. Beltwide Cotton Conf. pp 1200-1203.

Cook, D.R., J. Gore, A.L. Catchot, S.D. Stewart, G.M. Lorenz, B.R. Leonard, K. Tindall, D.S. Akin, G. Studebaker, and F. Musser. 2011. Aldicarb applied in-season for tarnished plant bug management. 2011 Proc. Beltwide Cotton Conf. pp 1209-1214.

Dennehy, T.J., M. Carroll, G.P. Head, W.J. Moar, P.A. Price, W. Akbar, D.S. Akin, J.R. Bradley, D.R. Cook, J.K. Greene, D. Kerns, B.R. Leonard, J. Lopez, P. Roberts, R. Smith, J. Van Duyn, and G.C. Unnithan. 2011. 2010-Season update on monitoring of resistance to Bt cotton in key Lepidopteran pests in the U.S.A. 2011 Proc. Beltwide Cotton Conf. pp 1061-1062.

Musser, F. R.E. Jackson, J. Greene, B.R. Leonard, S.D. Stewart, M. Parajulee, J.J. Adamczyk, G.M. Lorenz, D.S. Akin, K. Tindall, D.A. Herbert, and P. Roberts. 2011. 2010 Pyrethroid resistance monitoring of bollworms. 2011 Proc. Beltwide Cotton Conf. pp 1111-1114.

Von Kanel, B., A.L. Catchot, J. Gore, D.R. Cook, B.R. Leonard, G.M. Lorenz, G. Studebaker, D.S. Akin, S.D. Stewart, K. Tindall. 2011. Control of spider mites in the midsouth. 2011 Proc. Beltwide Cotton Conf. pp 1150-1150.

Akin, D.S. and J.E. Howard. 2010. Efficacy of selected insecticides against redbanded stink bug on soybean, 2009. Arthropod Management Tests. Vol 35:F40.

Akin, D.S., G.M. Lorenz, G. Studebaker, S.D. Stewart, B.R. Leonard, J. Greene, R.E. Jackson, K.C. Allen, A.L. Catchot, J. Reed, J. Gore, D.R. Cook, C. Daves, K. Tindall, D. Kerns, P. Roberts, M. Toews, A. Herbert, and J. Bacheler. 2010. Evaluation of automatic insecticide applications following preventative insecticides for thrips: Preliminary results from a regional project. 2010 Proc. Beltwide Cotton Conf. pp 1119-1121.

Akin, D.S., G.M. Lorenz, G. Studebaker, and W.A. Flanders. 2010. Economic impact of second-generation Bt cottons in Arkansas: A two-year study. 2010 Proc. Beltwide Cotton Conf. pp 941-943.

(Howard, J.E.), D.S. Akin, and R.E. Jackson. 2010. Behavioral response of two strains of fall armyworm (*Spodoptera frugiperda*) on dual-toxin Bt cottons. 2010 Proc. Beltwide Cotton Conf. pp 938-940.

(Howard, J.E.) and D.S. Akin. 2010. Efficacy of selected insecticides against bean leaf beetle on soybean, 2009. Arthropod Management Tests. Vol. 35:F48.

(Howard, J.E.) and D.S. Akin. 2010. Effects of Simulated Threecornered Alfalfa Hopper (*Spissistilus festinus* Say) Injury on Soybean Yield. Abstract, Arkansas Crop Protection Association Research Conference. November 29-30, 2010. Vol 14:6.

Cook, D.R., J. Gore, A.L. Catchot, F. Musser, D.S. Akin, G.M. Lorenz, S.D. Stewart, B.R. Leonard, E. Burris, K. Tindall, and G.E. Studebaker. 2010. In-season use of Temik for insect management in cotton. 2010 Proc. Beltwide Cotton Conf. pp 1123-1126.

Musser, F., R.E. Jackson, J.K. Greene, B.R. Leonard, S.D. Stewart, M. Parajulee, J.J. Adamczyk, G.M. Lorenz, D.S. Akin, K. Tindall, D.A. Herbert, and P. Roberts. 2010. Pyrethroid resistance monitoring of bollworms. 2010 Proc. Beltwide Cotton Conf. pp 1259-1264.

Stewart, S.D., J. Gore, A.L. Catchot, J. Smith, C. Daves, B.R. Leonard, G.M. Lorenz, D.S. Akin, G. Studebaker, and K. Tindall. 2010. Standardized evaluation of miticides in the midsouth. 2010 Proc. Beltwide Cotton Conf. pp 1111-1113.

Reed, J.T., A.L. Catchot, D.S. Akin, G.M. Lorenz, G. Studebaker, A. Herbert, C. Daves, K. Tindall, J. Greene, M. Toews, B.R. Leonard, S.D. Stewart, D.R. Cook, J. Gore, D. Kerns, J. Bacheler, P. Roberts, and S. Micinski. 2010. Regional thrips trial, 2009: Thrips species composition. 2010 Proc. Beltwide Cotton Conf. pp 906-912.

(Howard, J.E.), D.S. Akin, G.M. Lorenz, and C.D. Capps. 2009. Update of the redbanded stink bug (*Piezodorus guildinii* Westwood) in Arkansas soybean. Abstract, Arkansas Crop Protection Association Research Conference. November 30-December 1, 2009. Vol 13:4.

Musser, F.M., A.L. Catchot, S.D. Stewart, R.D. Bagwell, B.R. Leonard, G.M. Lorenz, K. Tindall, G. Studebaker, D.S. Akin, D.R. Cook, and C. Daves, 2009. Midsouth tarnished plant bug threshold developments. 2009 Proc. Beltwide Cotton Conf. pp 1123-1126.

Akin, D.S., B.C. Milligan, G.M. Lorenz, G. Studebaker, and K. Colwell. 2008. Evaluation of selected insecticides for control of tarnished plant bug in Southeast Arkansas. 2008 Proc. Beltwide Cotton Conf. pp 1218-1221.

Lorenz, G.M., D.S. Akin, K. Colwell, H. Wilf, C. Milligan, C. Shelton, and K. Driggs. 2008. Efficacy of VipCot[®] for Control of Lepidopterous Pests in Arkansas, 2007. 2008 Proc. Beltwide Cotton Conf. pp 1086-1089.

Stone, S.R., G.M. Lorenz, K. Colwell, G. Studebaker, and D.S. Akin. 2008. The new transgenics: Will they be cost effective for Arkansas cotton growers? A Two-Year Summary. Abstract, Arkansas Crop Protection Association Research Conference. December 1-2. Vol 12:4.

Bagwell, R.D., B.R. Leonard, F. Musser, A.L. Catchot, D.R. Cook, S.D. Stewart, K. Tindall, G. Studebaker, D.S. Akin, and G.M. Lorenz. 2008. A midsouthern perspective on Hemipteran pests. 2008 Proc. Beltwide Cotton Conf. pp 1086-1089.

Leonard, B.R. R. Bagwell, F. Musser, A.L. Catchot, S.D. Stewart, D.S. Akin, G.M. Lorenz, and G. Studebaker. 2008. Scouting methods and thresholds: We have work to do in the Midsouth. 2008 Proc. Beltwide Cotton Conf. pp 191-192.

(Capps, C.D.), D.S. Akin, G.M. Lorenz, and B.C. Milligan. 2007. Evaluation of selected insecticides for control of various stink bug species – 2007. Abstract, Arkansas Crop Protection Association Research Conference. November 26-27, 2007. Vol 11:20.

(Milligan, B.C.), D.S. Akin, G.M. Lorenz and G.E. Studebaker. 2007. Performance of selected insecticides for control of tarnished plant bug in southeast Arkansas. Abstract, Arkansas Crop Protection Association Research Conference. November 26-27, 2007. Vol 11:5.

Stone, S.R., G. Lorenz, K. Colwell, G.E. Studebaker, and D.S. Akin. 2007. The new transgenics: Will they be cost effective for Arkansas cotton growers? Abstract, Arkansas Crop Protection Association Research Conference. November 26-27, 2007. Vol 11:16.

Akin, D.S., M.B. Layton, S.D. Stewart, and J.J. Adamczyk. 2004. Temporal expression profiles and bioactivity of single (Bollgard[®]) and dual-toxin (Bollgard II[®]) Bt cotton. 2004 Proc. Beltwide Cotton Conf. 2:1422-1429.

Akin, D.S., M.B. Layton, S.D. Stewart, and J.J. Adamczyk. 2003. Profiling seasonal expression of Cry2Ab in bolls of dual-toxin Bt cotton. 2003 Proc. Beltwide Cotton Conf. 2:1157-1160.

Akin, D.S., S.D. Stewart, C.D. Parker, and K.S. Knighten. 2002. Field comparison of Bollgard[®] and Bollgard II[®] cottons. 2002 Proc. Beltwide Cotton Conf. Hyperlink below (no page numbers in 2002).
<http://www.cotton.org/beltwide/proceedings/getPDF.cfm?year=2002&paper=H159.pdf>

Akin, D.S., S.D. Stewart, K.S. Knighten, and J.J. Adamczyk. 2002. Quantification of toxin levels among plant parts in cottons expressing one and two insecticidal proteins of *Bacillus thuringiensis*. 2002 Proc. Beltwide Cotton Conf. Hyperlink below (no page numbers in 2002).
<http://www.cotton.org/beltwide/proceedings/getPDF.cfm?year=2002&paper=H019.pdf>

Akin, D.S., S.D. Stewart, and K.S. Knighten. 2001. Field efficacy of cotton expressing two insecticidal proteins of *Bacillus thuringiensis*. 2001 Proc. Beltwide Cotton Conf. 2:1041-1043.

Akin, D.S., S.D. Stewart, and K.S. Knighten. 2001. Behavioral response of lepidopteran pests on cotton expressing insecticidal proteins of *Bacillus thuringiensis*. 2001 Proc. Beltwide Cotton Conf. 2:828-830.

Akin, D.S., D.R. Shaw, and S.G. Flint. 2000. Long-term control of redvine (*Brunnichia ovata*) in Roundup Ready[®] soybean. 2000 Proc. Southern Weed Science Society. 53:14.

Blanche, S.B., D.R. Shaw, and D.S. Akin. 2000. Fluometuron and norflurazon losses in surface runoff as affected by tillage systems and vegetative filter strips. 2000 Proc. Southern Weed Science Society. 53:212.

Akin, D.S., D.R. Shaw, and G.R.W. Nice. 1999. Effects of Roundup Ultra[®] and conventional herbicides on yellow nutsedge (*Cyperus esculentus*) in soybean. 1999 Proc. Southern Weed Science Society. 52:248.

Akin, D.S., D.R. Shaw, and J.L. Norris. 1999. Efficacy of ALS-inhibiting herbicides tank-mixed with Roundup Ultra[®] in Roundup Ready[®] soybean. 1999 Proc. Southern Weed Science Society. 52:54.

Bennett, A.C., D.R. Shaw, and D.S. Akin. 1999. Efficacy of diphenylether herbicides tank-mixed with glyphosate. 1999 Proc. Southern Weed Science Society. 52:59.

Norris, J.L., D.R. Shaw, C.E. Snipes, and D.S. Akin. 1999. Influence of row spacing and residual herbicides on weed control in Roundup Ready[®] and Liberty Link[®] soybean. 1999 Proc. Southern Weed Science Society. 52:53.

Shaw, D.R., D.S. Akin, et al. 1999. Weed Control Investigations in Soybean and Wheat--1998. MS Agricultural & Forestry Experiment Station, Information Bulletin 353.

Extension Publications, State

Akin, D.S., G.M. Lorenz, and G.E. Stuebaker. (NEW) FSA7076--Identification of Cotton Seed Bug—A Potentially Invasive Pest to Arkansas.

Akin, D.S., G.M. Lorenz, and G.E. Stuebaker. (NEW) FSA7077--Brown Marmorated Stink Bug: A Potential Pest of Arkansas Row Crops.

Akin, D.S., J. Phillips, and D. Johnson. (NEW) FSA7078--Identification, Biology and Management of the Redbanded Stink Bug.

Stuebaker, G.E. [ed.], D.S., Akin, and G.M. Lorenz. 2008, 2009, 2010, and 2011 Insecticide Recommendations for Arkansas--Cotton, soybean, and corn sections.

Stuebaker, G.E., G.M. Lorenz, and D.S. Akin. (REVISED) FSA2066--Grain sorghum insect control.

Hopkins, J.D., G.E. Stuebaker, G.M. Lorenz, K.M. Loftin and D.S. Akin. (REVISED) MP83—Making an insect collection.

Hopkins, J. D., K. Loftin, G.M. Lorenz, G.E. Stuebaker, and D.S. Akin. (REVISED) FSA7054--Blister Beetle Management in Alfalfa.

Bachelor, J., A. Herbert, J.K. Greene, P. Roberts, M. Toews, E. Blinka, R. Smith, G.M. Lorenz, G.E. Stuebaker, and D.S. Akin. (NEW) AG1265—Scouting for Stink Bug Damage in Cotton: Description and Use of a Pocket Scouting Decision Aid.

Extension Publications, Regional

Akin, D.S. [ed], with contributors C. Daves, S.D. Stewart, G.E. Stuebaker, A.L. Catchot, K. Tindall, G.M. Lorenz, D.R. Cook, J. Gore, and B.R. Leonard. 2011. (NEW) A Guide for Scouting Insects of Field Corn in the Mid-Southern U.S. *In press*.

Catchot, A.L., S.D. Stewart, J. MacGown, J. Gore, D. Cook, C. Daves, G. Andrews, F. Musser, D.S. Akin, G.M. Lorenz, B.R. Leonard, R. Jackson, C. Allen, J. Smith, L. Owen, D. Dodds. (NEW) Cotton Insect Identification Guide. 2010. MSU Publication 1640.

Daves, C., A.L. Catchot, S.D. Stewart, J. MacGown, J. Gore, D.R. Cook, G. Andrews, F. Musser, D.S. Akin, G.M. Lorenz, B.R. Leonard, R. Jackson, C. Allen, J. Smith, L. Owen, and E. Larsen. (NEW) Corn Insect Identification Guide. 2010. MSU Publication 2252.

Catchot, A.L., F. Musser, J. Gore, D.R. Cook, C. Daves, G.M. Lorenz, D.S. Akin, G.E. Stuebaker, K. Tindall, S.D. Stewart, R. Bagwell, and B.R. Leonard. 2009. (NEW) Mid-south Multi-state Evaluation of Treatment Thresholds for Tarnished Plant Bug in flowering Cotton. Mississippi Agricultural and Forestry Experiment Station Bull. Mississippi State University, MS. 4 pp.

Stewart, S.D., G.M. Lorenz, G.E. Stuebaker, D.S. Akin, F. Musser, A.L. Catchot, D.R. Cook, J. Gore, C. Daves, K. Tindall, R. Bagwell, and B.R. Leonard. (NEW) Mid-south Multi-state Evaluation of Treatment Thresholds for Tarnished Plant Bug in Pre-flowering Cotton. Tennessee Agricultural Experiment Station Information Sheet No. W-221. 2009. University of Tennessee, Division of Agriculture, Jackson, TN.

Research summaries (parentheses denotes graduate student)

Akin, D.S., G.M. Lorenz, G.E. Stuebaker, and J.E. Howard. Regional survey 2009-2010: Thrips species composition across the upland cotton belt. 2011. Summaries of Arkansas Cotton Research 2010. Pp 132-137.

Akin, D.S. and J.E. Howard. 2010. Evaluation of selected insecticides for control of tarnished plant bug (*Lygus lineolaris*) in Arkansas cotton. Summaries of Arkansas Cotton Research 2009. Pp 156-159.

(Howard, J.E.) and D.S. Akin. 2010. Comparison of various insecticide seed treatments to foliar insecticide application for control of rice water weevil (*Lissorhoptus oryophilus* [Kuschel]). Summaries of Arkansas Rice Research 2009. Pp 100-103.

Akin, D.S., G.M. Lorenz, G.E. Stuebaker, and A. Flanders. 2009. Economic analysis and field efficacy of dual-toxin Bt cottons in Arkansas. Summaries of Arkansas Cotton Research 2008. Pp 110-114.

Akin, D.S., B.C. Milligan, G.M. Lorenz, G.E. Stuebaker, and K. Colwell. 2008. Performance of selected insecticides for control of tarnished plant bug (*Lygus lineolaris*) in southeast Arkansas. Summaries of Arkansas Cotton Research 2007. Pp 146-150.

Lorenz, G.M., D.S. Akin, K. Colwell, G.E. Stuebaker, H. Wilf, C. Shelton, B. Von Kanel, and K. Driggs. 2008. Performance of VipCot® in Arkansas. Summaries of Arkansas Cotton Research 2007. Pp 28-31.

ARTICLES

Arkansas-crops.com articles

Thrips control without Temik®. 3-29-11. <http://www.arkansas-crops.com/2011/03/29/64/>

Cutworms surfacing in southeast Arkansas corn. 4-11-11. <http://www.arkansas-crops.com/2011/04/11/cutworms-surfacing-in-southeast-arkansas-corn-2/>

2011 multi-crop scout schools announced. 5-3-11. <http://www.arkansas-crops.com/2011/05/03/2011-multi-crop-scout-school-dates-announced/>

Amid unseasonably cool temperatures, watch for “thrippy” cotton. 5-17-11. <http://www.arkansas-crops.com/2011/05/17/amid-unseasonably-cool-temperatures-watch-for-%e2%80%9cthippy%e2%80%9d-cotton/>

Herbicide/insecticide tank mixtures—“Too hot to handle” for young cotton? 6-10-11. <http://www.arkansas-crops.com/2011/06/10/herbicideinsecticide-tank-mixtures%e2%80%94-%e2%80%9ctoo-hot-to-handle%e2%80%9d-for-young-cotton/>

Invasive species alert: Two potentially new pests of Arkansas row crops. 7-15-11. <http://www.arkansas-crops.com/2011/07/15/invasive-species-alert-two-potentially-new-pests-of-arkansas-row-crops/>

“Worm” control issues on the rise in soybean. 7-22-11. <http://www.arkansas-crops.com/2011/07/22/%e2%80%9cworm%e2%80%9d-control-issues-on-the-rise-in-soybean/>

Loopers loom... Be ready. 8-30-11. <http://www.arkansas-crops.com/2011/08/30/loopers-loom-be-ready/>

Newsletter articles

Akin, D.S., G.E. Studebaker, and G.M. Lorenz. 2010. Arkansas Corn and Grain Sorghum News. Cutworm control in corn. May 8, 2010.

Akin, D.S. and G.M. Lorenz. 2010. Arkansas Cotton Update. Bollworm alert in Bollgard II® and WideStrike® cotton. July 23, 2010.

Akin, D.S. Jefferson County Newsletter, Row-Crop News. July 16, 2010. Sweep net can make treatment decisions in soybeans, early cotton. July 16, 2010.

Akin, D.S. and G.E. Studebaker. 2009. Arkansas Corn and Grain Sorghum News. Southwestern corn borers. June 24, 2009.

Akin, D.S. and G.E. Studebaker. 2009. Arkansas Corn and Grain Sorghum News. IPM in corn--cutworms. Studebaker and Akin. April 9, 2009.

Akin, D.S. and G. Lorenz. 2010 Soybean Notes. Redbanded stink bug. Sept 17, 2009.

Articles by D.S. Akin in *Arkansas Cotton Update* Newsletters (T. Barber, [ed.]):

Insecticide rainfastness for plant bug control. July 15, 2010.
Tarnished Plant Bugs, bollworm, and spider mites. July 8, 2010.
Tarnished plant bug insecticide rotation, bollworm management. June 16, 2010.
Bollworms in Seedling Bollgard II[®] Cotton. May 20, 2010.
Tarnished Plant Bug Termination/Insecticide of the Week: Novaluron. August 13, 2009.
Insecticide of the Week: Pyrethroids. July 30, 2009.
Insecticide of the Week: Acephate. July 16, 2009.
Spider mites and fall armyworms/Insecticide of the Week: Bt cottons. July 10, 2009.
Tarnished Plant bug threshold / U of A Aphid Threshold. June 25, 2009.
Moth trap numbers picking up/Insecticide of the Week: Thiamethoxam. June 18, 2009.
Insect Update/Insecticide of the Week: Flonicamid. May 27, 2009.
Insect Update/Insecticide of the Week: Dicrotophos. May 21, 2009.
Unconventional uses for Temik[®]/Insecticide of the Week: Aldicarb. May 13, 2009.
Insecticide of the Week: Imidacloprid seed treatment. April 30, 2009.
Insecticide seed treatments/Insecticide of the Week: Thiamethoxam at-plant. Apr 23, '09.
Plant bugs and bollworms. July 9, 2008.
Plant bugs, bollworms, and beneficial arthropods. July 2, 2008.
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Plant bugs and bollworms. June 25, 2008.
Thrips and plant bugs. June 11, 2008.
Snails and slugs in cotton. May 28, 2008.
Cotton Insect update. May 14, 2008.
Plant bugs, heliothines, and calculating DD60's. August 8, 2007.
Plant bugs and fall armyworm. July 26, 2007.
Cotton Insect update. July 12, 2007.
Plant bugs and bollworm/budworm. July 5, 2007.
Cotton Insect update. June 20, 2007.
Plant bugs and aphids. June 13, 2007.
Thrips, plant bugs, and spider mites. June 6, 2007.

Popular Press/Trade Journal Articles

"Unmasking the Mascots" (Boll Weevils—University of Arkansas at Monticello).
Blytheville Courier News. September 2, 2011.

"Hitchhiking stink bug could find way to Arkansas". Mid-America Farmer-Grower. August 5, 2011.

Brown Marmorated Stink Bug. DeWit Era-Enterprise. August 4, 2011.

Brown Marmorated Stink Bug. Magnolia Reporter. August 3, 2011.

"Hitchhiking stink bug may find way to Arkansas". AgWatch Network. August 1, 2011.

"Arkansas: Brown Marmorated Stink Bug Headed South", by Mary Hightower. July 29, 2011. <http://agfax.com/Content/arkansas-stink-bug-hitching-a-ride-07292011.aspx>

"Bollworms hit Arkansas, Mississippi Soybean Fields", Delta Farm Press. July 27, 2011.

“Arkansas cotton growers hit the accelerator”, by Mary Hightower. May 24, 2011.
<http://deltafarmpress.com/cotton/arkansas-cotton-growers-hit-accelerator>

“Arkansas Cotton Growers Hit the Accelerator”, Delta Farm Press. May 24, 2011.

“Thrips may be hard to control this year in cotton”, by Kelly Tindall, Missouri Bootheel Ag Pest Management Blog. May 20, 2011.
<http://bootheelagpestmanagement.wordpress.com/2011/05/20/thrips-may-be-hard-to-control-this-year-in-cotton/>

“Watch for Stink Bugs in late Soybeans”, Delta Farm Press. Sept 17, 2010.

CES Website Article: “Sweep net can help make treatment decisions in soybeans and early cotton”. July 2010.
http://www.uaex.edu/news/july2010/0709Pests_Sweepnet.htm

“Bollworms, loopers hit Arkansas Fields”, Delta Farm Press. May 26, 2010.

“Corn—Cutworms Loom”, Delta Farm Press (submitted by county agent)--May 5, 2010.

“Redbanded stink bug—Pest Moves Northward, Has Invaded Arkansas”. Mid-America Farmer-Grower. April 2, 2010.

“Redbanded stink bug in Arkansas”, Delta Farm Press. February 24, 2009.

“Worm Warning”, Corn and Soybean Digest. February 15, 2009.

“Snails slime cotton fields in Jefferson and Desha Counties”. High Plains/MidWest Ag Journal. July 15, 2008.
<http://www.hpj.com/archives/2008/jul08/jul21/SnailsslimecottonfieldsinJe.cfm>

“Snails attack cotton fields in Jefferson and Desha Counties”, by Lamar James. 2008.

AgFax Reports-- Provided two crop insect updates in July 2008.

“What happened to the Bollworms?” Delta Farm Press. June 24, 2008.

Podcast for Arkansas soybean Promotion Board. “Proper sampling techniques using a sweepnet in soybean”.
http://www.aragriculture.org/crops/soybeans/podcasts/number36_wmv.htm

Podcast for Arkansas Soybean Promotion Board. “Overview of the redbanded stink bug.” http://www.aragriculture.org/crops/soybeans/podcasts/number21_wmv.htm

PROFESSIONAL PRESENTATIONS

State presentations (parentheses denotes graduate student)

(Howard, J.E.) and D.S. Akin. Effects of simulated threecornered alfalfa hopper injury to soybean yield. 2010 Arkansas Crop Protection Association Research Conference. Nov 30, 2010.

Akin, D.S., C.D. Capps, J.E. Howard, R.N. Wiedenmann, and G.M. Lorenz. 2009. Update of the redbanded stink bug in Arkansas soybeans. 2009 Annual Meeting of the Arkansas Entomological Society. October 16, 2009.

(Howard, J.E.), D.S. Akin, G.M. Lorenz III, and C.D. Capps. 2009. Update of the redbanded stink bug (*Piezodorus guildinii* Westwood) in Arkansas soybean. 2009 Arkansas Crop Protection Association Research Conference. November 30-December 1, 2009.

Stone, S.R., G.M. Lorenz, D.S. Akin, and G.E. Studebaker. 2008. The new transgenics: Will they be cost-effective for Arkansas growers? A two-year summary. 2008 Arkansas Crop Protection Association Research Conference. December 1-2, 2008.

(Milligan, B.C.), D.S. Akin, G.M. Lorenz and G.E. Studebaker. 2007. Performance of selected insecticides for control of tarnished plant bug in southeast Arkansas. 2007 Arkansas Crop Protection Association Research Conference. November 26-27, 2007.

(Capps, C.D.), D.S. Akin, G.M. Lorenz and B.C. Milligan. 2007. Evaluation of selected insecticides for control of various stink bug species in soybean. 2007 Arkansas Crop Protection Association Research Conference. November 26-27, 2007.

Stone, S.R., G.M. Lorenz, K. Colwell, G.E. Studebaker, and D.S. Akin. 2007. The new transgenics: Will they be cost effective for Arkansas cotton growers? 2007 Arkansas Crop Protection Association Research Conference. November 26-27, 2007.

Akin, D.S., M.B. Layton, S.D. Stewart, J.J. Adamczyk, and K.S. Knighten. 2003. Seasonal Cry protein expression in transgenic Bt cottons. 50th Annual Conference of the Mississippi Entomological Association Research Conference. Mississippi State, MS. November 3-5, 2003.

Akin, D.S., S.D. Stewart, J.J. Adamczyk, and K.S. Knighten. 2002. Mapping expression of Cry proteins in single and dual-toxin transgenic Bt cotton. 49th Annual Conference of the Mississippi Entomological Association research Conference. Miss. State, MS. Oct 28-30, 2002.

Akin, D.S., S.D. Stewart, J.J. Adamczyk, and K.S. Knighten. 2002. Expression of Bt toxins in Bollgard[®] and Bollgard II[®] cottons. Joint Conference, Mississippi Ag Pest Management Associations. Greenville, MS. Feb 19-21, 2002.

Akin, D.S., S.D. Stewart, and K.S. Knighten. 2001. Quantification of toxin levels among plant parts in cotton expressing one and two insecticidal proteins of *Bacillus thuringiensis*. 48th Annual Conference of the Mississippi Entomological Association. Mississippi State, MS. November 13-15, 2001.

Akin, D.S., S.D. Stewart, and K.S. Knighten. 2000. Activity of cotton expressing two insecticidal proteins of *Bacillus thuringiensis* against various lepidopteran pests. 47th Annual Conference of Mississippi Entomological Assoc. Miss. State, MS. Nov 14-16, 2000.

Regional presentations (parentheses denotes graduate student)

(Howard, J.E.), D.S. Akin, D.R. Cook, S.D. Stewart, and J. Gore. 2011. Effects of simulated threecornered alfalfa hopper (*Spissistilus festinus* Say) injury on soybean yield. 1st Annual MEA-MWSS-MAPPAN Joint Meeting. October 24-25, 2011.

Akin, D.S., G.M. Lorenz, G.E. Studebaker, B.R. Leonard, S.D. Stewart, J. Reed, A.L. Catchot, D.R. Cook, J. Gore, C. Daves, R.E. Jackson, K.C. Allen, D. Kerns, M. Toews, P. Roberts, K. Tindall, A. Herbert, J.K. Greene and J. Bacheler. 2010. Evaluation of foliar insecticide applications following preventative insecticide for control of thrips. 84th Annual Meeting of the Southeastern Branch Entomological Society of America. March 7-10, 2010.

Cook, D.R., J. Gore, G.M. Lorenz, B.R. Leonard, S.D. Stewart, A.L. Catchot, and D.S. Akin. 2010. Management of tarnished plant bug in cotton in the mid-south. 84th Annual Meeting of the Southeastern Branch Entomological Society of America. March 7-10, 2010.

Stewart, S.D., B.R. Leonard, D.R. Cook, D.S. Akin, G.M. Lorenz, and J. Davis. 2010. Threecornered alfalfa hopper—How much does lodging of soybean plants influence yield? 84th Annual Meeting of the Southeastern Branch Entomological Society of America. March 7-10, 2010.

(Capps, C.D.), D.S. Akin, R.N. Wiedenmann, and J.E. Howard. 2009. Damage potential and control options of *Piezodorus guildinii* (Westwood) in Arkansas soybeans. 83rd Annual Meeting of the Southeastern Branch Entomological Society of America. March 8-11, 2009.

(Capps, C.D.), D.S. Akin, and G.M. Lorenz. 2008. Identification and control of lesser-known stink bug species in Arkansas soybeans. 82nd Annual Meeting of the Southeastern Branch Entomological Society of America. March 3-5, 2008.

Akin, D.S., M.B. Layton, and S.D. Stewart. 2003. Efficacy of Bollgard II[®] cotton against occasional lepidopteran pests. 77th Annual Meeting of the SEB-ESA. Baton Rouge, LA. Mar 9-12, 2003.

Akin, D.S., D.R. Shaw, and S.G. Flint. 2000. Long-term control of redvine (*Brunnichia ovata*) in Roundup Ready[®] soybean. 53rd Annual Meeting of the Southern Weed Science Soc. Tulsa, OK. January 24-26, 2000.

Akin, D.S., D.R. Shaw, and J.L. Norris. 1999. Efficacy of ALS-inhibiting herbicides tank-mixed with Roundup Ultra[®] in Roundup Ready[®] soybean. 52nd Annual Meeting of the Southern Weed Science Society. Greensboro, NC. January 25-27, 1999.

Blanche, S.B., D.R. Shaw, and D.S. Akin. 2000. Fluometuron and norflurazon losses in surface runoff as affected by tillage systems and vegetative filter strips. 53rd Annual Meeting of the Southern Weed Science Society. Tulsa, OK. January 24-26, 2000.

Bennett, A.C., D.R. Shaw, and D.S. Akin. 1999. Efficacy of diphenylether herbicides tank-mixed with glyphosate. 52nd Annual Meeting of the Southern Weed Science Society. Greensboro, NC. January 25-27, 1999.

Norris, J.L., D.R. Shaw, C.E. Snipes, and D.S. Akin. 1999. Influence of row spacing and residual herbicides on weed control in Roundup Ready[®] and Liberty Link[®] soybean. 52nd Annual Meeting of the Southern Weed Science Society. Greensboro, NC. January 25-27, 1999.

National presentations

Akin, D.S., M. Toews, P. Roberts, J. Bacheler, A.L. Catchot, J. Reed, D.R. Cook, J. Gore, J. Greene, A. Herbert, R.E. Jackson, K.C. Allen, D. Kerns, B.R. Leonard, G.M. Lorenz, S. Micinski, D. Reising, S.D. Stewart, G.E. Studebaker, and K. Tindall. 2011. Evaluation of automatic insecticide applications following preventative insecticides for thrips. 2011 Beltwide Cotton Conf. January 4-7, 2011. Atlanta, GA.

Lorenz, G.M., D.S. Akin, G.E. Studebaker, S.D. Stewart, B.R. Leonard, K. Tindall, A.L. Catchot, J. Gore, D.R. Cook, and F. Musser. 2011. Report on a midsouth regional plant bug efficacy trial 2009-2010. 2011 Beltwide Cotton Conf. January 4-7, 2011. Atlanta, GA.

Stewart, S.D., S. Steckel, K. Pearson, G.M. Lorenz, D.S. Akin, and A.L. Catchot. 2011. Insecticide mixing strategies for managing tarnished plant bugs with an emphasis on Diamond[®]. 2011 Beltwide Cotton Conf. January 4-7, 2011. Atlanta, GA.

Cook, D.R., J. Gore, A.L. Catchot, S.D. Stewart, G.M. Lorenz, B.R. Leonard, K. Tindall, D.S. Akin, G.E. Studebaker, and F. Musser. 2011. Aldicarb applied in-season for tarnished plant bug management. 2011 Beltwide Cotton Conf. Jan 4-7, 2011. Atlanta, GA.

Von Kanel, B., A.L. Catchot, J. Gore, D.R. Cook, B.R. Leonard, G.M. Lorenz, G.E. Studebaker, D.S. Akin, S.D. Stewart, and K. Tindall. 2011. Control of spider mites in the midsouth. 2011 Beltwide Cotton Conf. January 4-7, 2011. Atlanta, GA.

Akin, D.S., G.M. Lorenz, G.E. Studebaker, S.D. Stewart, B.R. Leonard, S. Micinski, J.K. Greene, R.E. Jackson, K.C. Allen, A.L. Catchot, J. Reed, J. Gore, D.R. Cook, C. Daves, K. Tindall, D. Kerns, P. Roberts, M. Toews, A. Herbert, and J. Bacheler. 2010. Evaluation of automatic insecticide applications following preventative insecticides for thrips: Preliminary results from a regional project. 2010 Beltwide Cotton Conf. Jan 4-7, 2010. New Orleans, LA.

Cook, D.R., Gore, J., A.L. Catchot, Musser, F., Akin, D.S., Lorenz, G.M., Stewart, S.D., Leonard, B.R., Burris, E., Tindall, K. and Studebaker, G.E. 2010. In-season use of Temik[®] for insect management in cotton. 2010 Beltwide Cotton Conf. Jan 4-7, 2010. New Orleans, LA.

Musser, F., R.E. Jackson, J.K. Greene, B.R. Leonard, S.D. Stewart, M. Parajulee, J.J. Adamczyk, G.M. Lorenz, D.S. Akin, K. Tindall, A. Herbert, and P. Roberts. 2010. Pyrethroid resistance monitoring of bollworms. 2010 Proc. Beltwide Cotton Conf. January 4-7, 2010. New Orleans, LA

Stewart, S.D., J. Gore, A.L. Catchot, J. Smith, C. Daves, B.R. Leonard, G.M. Lorenz, D.S. Akin, G.E. Studebaker, and K. Tindall. 2010. Standardized evaluation of miticides in the Mid-south. 2010 Beltwide Cotton Conf. January 4-7, 2010. New Orleans, LA.

Dennehy, T.J., M. Carroll, G.P. Head, W.J. Moar, P.A. Price, W. Akbar, D.S. Akin, J.R. Bradley, D.R. Cook, J.K. Greene, D. Kerns, B.R. Leonard, J. Lopez, P. Roberts, R. Smith, J. Van Duyn, and G.C. Unnithan. 2010. 2010-Season update on monitoring of resistance to Bt cotton in key Lepidopteran pests in the U.S.A. 2010 Beltwide Cotton Conf. January 4-7, 2011. Atlanta, GA.

Musser, F. R.E. Jackson, J.K. Greene, B.R. Leonard, S.D. Stewart, M. Parajulee, J.J. Adamczyk, G.M. Lorenz, D.S. Akin, K. Tindall, D.A. Herbert, and P. Roberts. 2010. 2010 Pyrethroid resistance monitoring of bollworms. 2010 Beltwide Cotton Conf. January 4-7, 2011. Atlanta, GA.

Musser, F.M., A.L. Catchot, S.D. Stewart, R.D. Bagwell, B.R. Leonard, G.M. Lorenz, K. Tindall, G.E. Studebaker, D.S. Akin, D.R. Cook, and C. Daves. 2009. Midsouth tarnished plant bug threshold developments. 2009 Beltwide Cotton Conf. Jan 5-8, '09. San Antonio, TX.

Bagwell, R.D., B.R. Leonard, F. Musser, A.L. Catchot, D.R. Cook, S.D. Stewart, K. Tindall, G.E. Studebaker, D.S. Akin, and G.M. Lorenz. 2008. A midsouthern perspective on Hemipteran pests. 2008 Beltwide Cotton Conf. January 8-11, 2008. Nashville, TN.

Leonard, B.R. R. Bagwell, F. Musser, A.L. Catchot, S.D. Stewart, D.S. Akin, G.M. Lorenz, and G.E. Studebaker. 2008. Scouting methods and thresholds: We have work to do in the Midsouth. 2008 Beltwide Cotton Conf. January 8-11, 2008. Nashville, TN.

Lorenz, G.M., D.S. Akin, K. Colwell, H. Wilf, C. Milligan, C. Shelton, and K. Driggs. 2008. Efficacy of VipCot[®] for control of Lepidopterous pests in Arkansas, 2007. Beltwide Cotton Conf. January 8-11, 2008. Nashville, TN.

Akin, D.S., B.C. Milligan, G.M. Lorenz, G.E. Studebaker, and K. Colwell. 2007. Evaluation of selected insecticides for control of tarnished plant bug in southeast Arkansas. 2007 Beltwide Cotton Conf. January 9-12, 2007. New Orleans, LA.

Akin, D.S., M.B. Layton, S.D. Stewart, and J.J. Adamczyk. 2004. Temporal expression profiles and bioactivity of single (Bollgard[®]) and dual-toxin (Bollgard II[®]) Bt cotton. 2004 Beltwide Cotton Conferences. San Antonio, TX. January 5-9, 2004.

Akin, D.S., M.B. Layton, S.D. Stewart, and J.J. Adamczyk. 2003. Profiling seasonal expression of Cry2Ab in bolls of dual-toxin Bt cotton. 2003 Beltwide Cotton Conf. Nashville, TN. Jan 6-10, 2003.

Akin, D.S., S.D. Stewart, J.J. Adamczyk, and K.S. Knighten. 2002. Quantification of toxin levels among plant parts in cotton expressing one and two insecticidal proteins of *Bacillus thuringiensis*. 2002 Beltwide Cotton Conf. Atlanta, GA. Jan 8-12, 2002.

Akin, D.S., S.D. Stewart, and K.S. Knighten. 2001. Behavioral response of lepidopteran pests on cotton expressing insecticidal proteins of *Bacillus thuringiensis*. 2001 Beltwide Cotton Conf. Anaheim, CA. Jan 9-13, 2001.

Invited seminar and guest presentations (excluding 3 thus far in 2012)

Akin, D.S. Soybean and rice insects— Identification and management. 2011 Arkansas Agricultural Consultants Association. February 8, 2011.

Akin, D.S. Soybean IPM Forum: Insect identification, thresholds, and insecticide mode of action. 2011 Arkansas Crop Management Conference. January 20, 2011.

Akin, D.S. The future of cotton IPM in Arkansas. 2011 Arkansas Crop Management Conference. Jan 19, 2011.

Akin, D.S. and J.E. Howard. Evaluating field efficacy of Herculex[®] I, YieldGard[®] Corn Borer, and Bt11xMIR162 against *S. frugiperda* and *H. zea* in Arkansas. Pioneer Hi-Bred Data Review, Nov 30, 2010. Memphis, TN.

Akin, D.S. New technology and currently available products in cotton IPM. Cotton Incorporated Crop Management Seminar. November 10, 2010. Memphis, TN.

Akin, D.S. Grant proposals 101. AES Faculty Workshop. May 7, 2010.

Akin, D.S. Cotton insect update. 2010 Arkansas Crop Mgt. Conf. Jan 22, 2010.

Akin, D.S. Overview of the redbanded stink bug (*Piezodorus guildinii*). Southern Field Crop Alliance Conference. January 13-14, 2010. Tunica, MS.

Akin, D.S. Insecticide seed treatments for cotton and corn. Southern Field Crop Alliance Conference. January 13-14, 2010. Tunica, MS.

Akin, D.S. Insect pest management and insecticides. Certified Applicator Training. UAM Ag Building. December 17, 2009.

Akin, D.S., C.D. Capps, J.E. Howard, R.N. Wiedenmann, and G.M. Lorenz. Redbanded stink bug (*Piezodorus guildinii*) in Arkansas soybean: Identification and control. 2009 Arkansas Soybean Research Conference. December 8, 2009.

Akin, D.S. Second-generation Bt cotton: Value to Arkansas cotton growers. 2009 Arkansas Crop Management Conference. Jan 27-30, 2009.

Akin, D.S. Insect pest management in Arkansas soybeans—Alternative crops for bio-fuel production. July 30, 2009. Rohwer Research Station Biofuels Field Day.

Akin, D.S. Integrated pest management—History and concepts. Commercial Pesticide Applicators Training. November 21, 2008. Monticello, AR.

Akin, D.S. Tarnished plant bug sampling, Thresholds and management. 2008 Arkansas Crop Management Conference. Jan 29-31, 2008.

Akin, D.S. IPM in southeast Arkansas row crops— Directions for research and extension. Department of Entomology Seminar Series, Fayetteville, AR. Nov 30, '07.

Akin, D.S. Invasive species—*Spodoptera littoralis*. UA-CES, Scouting School, Jonesboro, 2007.

Akin, D.S. Insecticide use in row crops. Certified Applicator Training—UAM. Mar 21, 2007.

Akin, D.S. and D.R. Shaw. Perennial weed management with glyphosate in Roundup Ready® crops. Advanced Cotton Pest Mgt Short Course. Miss. State, MS. Mar 2000.

Musser, F., S.D. Stewart, G.M. Lorenz, R. Bagwell, A.L. Catchot, K. Tindall, G.E. Studebaker, B.R. Leonard, D.R. Cook, D.S. Akin, and C. Daves. 2008. Plant bug threshold developments in cotton. Cotton Inc., Crop Management Seminar, November 11-13, 2008. Tunica, MS.

Stewart, S.D., J. J. Adamczyk, and D.S. Akin. 2000. Performance of Bollgard II® varieties. Cotton Incorporated Crop Mgt Seminar, Memphis, TN. Nov 16-17, 2000.

Stewart, S.D., D.S. Akin, J.J. Adamczyk, and M.B. Layton. What to expect from Bollgard II®. Cotton Short Course, Starkville, MS. 2000.

Stewart, S.D., D.S. Akin, J.J. Adamczyk, and M.B. Layton. What to expect from Bollgard II®. Monsanto Technology Update, Biloxi, MS. 2000.

POSTERS (parentheses denotes graduate student)

Akin, D.S., J. Reed, M. Toews, J. Bacheler, A.L. Catchot, D.R. Cook, J. Gore, J.K. Greene, A. Herbert, R.E. Jackson, K.C. Allen, D.L. Kerns, B.R. Leonard, G.M. Lorenz, S. Micinski, D. Reisig, P. Roberts, S.D. Stewart, G.E. Studebaker, K. Tindall. Regional survey: Thrips species composition. 2011 Proc. Beltwide Cotton Conf. and 2011 Southeastern Branch ESA.

(Howard, J.E.) and D.S. Akin. Evaluation of selected insecticides for control of tarnished plant bug in close proximity to corn. 2011 Proc. Beltwide Cotton Conf.

Akin, D.S., G.M. Lorenz, G. Studebaker, and A. Flanders. Economic impact of second-generation Bt cottons In Arkansas: A two-year study. 2010 Proc. Beltwide Cotton Conf. and 2010 Southeastern Branch ESA.

Akin, D.S. and J.E. Howard. Identification of economically important stink bugs in Arkansas. 2010 Arkansas Crop Management Conf. *and* Rohwer Field Day.

(Howard, J.E.), D.S. Akin, and R.E. Jackson. Behavioral response of two strains of fall armyworm on dual-toxin Bt cottons. 2010 Proc. Beltwide Cotton Conf. *and* Southeastern Branch ESA.

Reed, J.T., A.L. Catchot, D.S. Akin, G.M. Lorenz, G.E. Studebaker, A. Herbert, C. Daves, K. Tindall, J. Greene, M. Toews, B.R. Leonard, S.D. Stewart, D.R. Cook, J. Gore, D. Kerns, J. Bacheler, P. Roberts, and S. Micinski. Regional thrips trial, 2009: Thrips species composition. 2010 Proc. Beltwide Cotton Conf.

Cook, D., J. Gore, A.L. Catchot, S.D. Stewart, G.M. Lorenz, B.R. Leonard, K.V. Tindall, D.S. Akin, R.D. Bagwell, F. Musser, and G.E. Studebaker. In-season applications of aldicarb for insect management in cotton. 2010 Southeastern Branch ESA.

Akin, D.S., B.C. Milligan, and G.M. Lorenz. Management of various stink bug species in Arkansas Soybean. 2008 Arkansas Entomological Society *and* 2008 Rohwer Field Day.

Akin, D.S., M.B. Layton, S.D. Stewart, and J.J. Adamczyk. Seasonal expression profiles of Bt toxins in terminal leaves of Bollgard II[®] cotton. Joint Conference, Mississippi Ag Pest Management Assoc. Greenville, MS. Feb 17-19, 2004.

Akin, D.S., M.B. Layton, S.D. Stewart, and J.J. Adamczyk. Utilizing *Helicoverpa zea* bioassay to evaluate temporal Cry protein expression in Bollgard[®] cottons. 78th Annual Meeting of SE Branch of the Ent. Soc. of America. Charleston, SC. Feb 15-18, 2004.

Akin, D.S., S.D. Stewart, and M.B. Layton, and J.J. Adamczyk. Profiling expression of Cry2Ab in bolls of Bollgard II[®] cotton. Joint Conference, Mississippi Agricultural Pest Management Associations. Greenville, MS. February 18-20, 2003.

Akin, D.S., S.D. Stewart, D. Parker, and K. Knighten. Field comparison of non-Bt, Bollgard[®], and Bollgard II cottons. Joint Conference, Mississippi Agricultural Pest Management Associations. Greenville, MS. Feb 18-20, 2002, *AND* 2002 Beltwide Cotton Conf. Jan 8-12, 2002.

Akin, D.S., S.D. Stewart, and J.J. Adamczyk. Quantification of toxin levels among plant structures in transgenic Bt cottons using enzyme-linked immunosorbent assay. 76th Annual Meeting of Southeastern Branch of the Entomological Society of America. Little Rock, AR. March 3-6, 2002.

Akin, D.S., S.D. Stewart, D. Parker, and Knighten. Field efficacy of cotton expressing two insecticidal proteins of *Bacillus thuringiensis*. Joint Conference, Mississippi Agricultural Pest Management Associations. Greenville, MS. February 18-20, 2001, *AND* 2001 Beltwide Cotton Conferences. January 9-13, 2001.

Akin, D.S., S.D. Stewart, and K. Knighten. Toxicity of cotton expressing one or two insecticidal proteins of *Bacillus thuringiensis* against various Lepidopteran pests. 75th Annual Meeting of SE Branch of the Ent. Soc. of America. Augusta, GA. Mar 3-7, 2001.

Akin, D.S., D.R. Shaw, and G.R.W. Nice. Effects of glyphosate and conventional herbicides on yellow nutsedge (*Cyperus esculentus*) in Roundup Ready® soybean. 52nd Annual Meeting of the Southern Weed Science Soc. Greensboro, NC. Jan 25-27, 1999.

GRANTSMANSHIP EFFORTS (through 2011)

Total Grants and Contracts Funded.....\$221,000
Total Gifts.....\$308,880

Lorenz, G., S. Akin, G. Stuebaker. Profitability: Controlling Tarnished Plant Bugs. Cotton State Support. 2007-- \$26,565. My share: \$8855

Kelley, J. (PI), D.S. Akin, G. Stuebaker, and P. McLeod. Arkansas Corn and Grain Sorghum Promotion Board. Developing Planting Date Guidelines for Arkansas Corn. My share: 2007—\$3,000, 2008--\$3000, 2009--\$3000, 2010--\$4000.

Lorenz, G. (PI), D.S. Akin, G. Stuebaker, and R. Hogan. The New Transgenics: Will they be cost effective for Arkansas Cotton Growers. Cotton State Support: \$24,364/year. My share: 2007—\$8121.33, 2008--\$8121.33.

Lorenz, G., S. Akin, G. Stuebaker. Tarnished Plant Bug Thresholds. Cotton Inc. 2007-2008. Core Funding: Arkansas share \$20,000/year. My share: \$6666.66/year.

Lorenz, G., S. Akin, G. Stuebaker, and R. Hogan. The New Transgenics: Will they be Cost effective for Arkansas Cotton Growers? 2007-2008. Cotton State Support: \$24,364/year. My share: \$8121.33/year.

Lorenz, G., G. Stuebaker, and D.S Akin. Plant Bug Management, Cotton Inc. 2007-2008. \$18,000/year (my share \$6,000/year).

Lorenz, G. Stuebaker, and S. Akin. Evaluation of Cotton Yield Loss Caused by Twospotted Spider Mites. Cotton Incorporated. 2008. \$19,800. My share: \$6600

Akin, D.S. Achieving Profitable Cotton : Plant Bug Management. 2009. CORE--\$6000.

Akin, D.S. Achieving Profitable Cotton : Plant Bug Management. 2009. State Support--\$5512.67.

Akin, D.S. Regional Project—Thrips species composition/automatic applications following seed treatments in cotton. 2009. Cotton Foundation-- \$1000.

Lorenz, G. Stuebaker, and D.S. Akin. Spider Mite Management. Cotton Incorporated. 2009-2010. \$19,800/year (my share \$6,600/year)

Akin, D.S. Regional Project—Thrips species composition/automatic applications following seed treatments in cotton. 2010. Cotton Foundation-- \$1700.

Akin, D.S. and G. Lorenz. Redbanded stink bug management. Arkansas Soybean Promotion Board. 2010 and 2011-- \$28,700/year. My share: \$20,000/year.

Lorenz, G., D.S. Akin, and G. Stuebaker. Validation of corn earworm threshold in soybean. Arkansas Soybean Promotion Board. 2010-- \$36,000 (my share: \$12,000) 2011--\$36,000 (my share: \$12,000)

Stuebaker, G. and D.S. Akin. Evaluation of Bt Corn Traits Against Various Lepidopteran Pests in Arkansas. Arkansas Corn and Grain Sorghum Board. 2011-- \$21,000 (my share:10,500)

Akin, D.S. Regional Project—Automatic applications following seed treatments in cotton. 2011. Cotton Foundation-- \$2000.

Akin, D.S. Plant Bug Management. Cotton Incorporated. 2011. \$5513.

Akin, D.S., G. Lorenz, and G. Stuebaker. Evaluation of Rainfastness of Various Insecticides Used for Control of Tarnished Plant Bug in Cotton. 2011-2012. Cotton State Support: \$18,495/year. My share: \$6,165/year.

Grants/contracts funded-- \$39,500 (2007-2011)

Evaluation of VipCot® against leps. \$5,500. Syngenta Crop Protection. 2007.

Evaluation of MIR162 trait in corn, \$12,000. Pioneer Hi-Bred. 2010.

Evaluation of Twinlink cotton, \$10,000. Bayer CropScience, 2011.

Evaluation of MIR162 trait in corn, \$12,000. Pioneer Hi-Bred. 2011.

Impact of bioenergy crops on pests, natural enemies, and pollinators in agricultural and non-crop landscapes. (AFRI). 2012-2016. \$938,104 total.

Gifts-in-Kind, 2007-2011--Secured product donations (insecticide or seed)

Bayer CropScience, Syngenta Crop Protection, MANA, DuPont, FMC, AMVAC, Dow AgroSciences, Valent, Progeny Seed Company, Delta and Pineland Seed Company, Phytogen Seed Company, and Stoneville Seed Company

“NON-COMPETITIVE” SUPPORT

Unrestricted gifts, 2007-2011 (total = \$308,880)

\$32,500 (Dow AgroSciences)

\$40,500 (Bayer CropScience)

\$4,000 (FMC)

\$14,500 (Cheminova)

\$105,600 (Syngenta)

\$23,600 (BASF)

\$29,680 (DuPont)

\$17,500 (Monsanto)

\$2,500 (AMVAC)

\$31,000 (MANA)

\$3,000 (Gowan)

\$4,500 (Valent)

TEACHING EXPERIENCE

Co-Instructor, Spring 2003, EPP4263/6263 – Principles of IPM, Mississippi State University; Graduate/undergraduate level course addressing row crop IPM (24 students)

Instructor, Spring semesters 2007-2011 (yearly) -- Developed ENTO2283 (undergraduate Applied Entomology class at UAM). This class has had 115 students over 5 years, including 3 “special needs” students over the last 5 years. Class has been rated as “good” to “excellent” by >90% of students over last 4 years.

Directed undergraduate student (Shelby Williams) on Independent Study (AGRO 479V, UAM)—“*Helicoverpa zea* Pyrethroid Resistance Monitoring” in 2009.

Trained graduate students in scientific writing, research, and graduate student paper competitions; unofficially advised several undergraduate students at UAM to help prepare them for the workforce (resume, job application, interview, etc.).

SERVICE

Training Programs: >150 extension presentations, including county meetings, in-service trainings, field days, scout schools and other programs.

Planning: Have helped plan various field days and in-service trainings within extension. Also contributed to various interdisciplinary and/or interorganizational groups (e.g., Arkansas Crop Protection Association, Cotton Incorporated, etc).

Handouts/alerts: Numerous handouts/email alerts have been disseminated extension-wide addressing pertinent pest issues.

Insecticide and IPM Testing and Demonstration (University of Arkansas): Extensive program with 25-40 replicated trials conducted annually (>150 total) for insecticide screening, comparison of Bt cotton traits, etc.

Website Development: Developer of University of Arkansas Insect Pest Management Photo Gallery website <http://insectphotos.uark.edu/>. Also developed “Arkansas Crop Insect Situation” on *Twitter* and *Facebook*.

Cotton Newsletter: Numerous contributions to University of Arkansas Division of Agriculture Cotton Situation Newsletter during the growing season from 2007-2010.

Diagnostics: Numerous field visits, phone calls, insect identifications related to pest management problems in cotton, soybean, corn, sorghum, wheat, pasture, and rice. Phone contact where caller is seeking consultation exceeds several hundred calls/field visits annually. Clientele groups include crop consultants, county agents, producers, and private industry representatives.

Multi-State Research efforts: Member of the Mid-South Entomologists Working Group (MSEWG), consisting of entomologists in Arkansas, Louisiana, Mississippi, Missouri, and Tennessee. Several projects have been completed or are currently underway that address regional row crop pest management issues throughout the mid-southern U.S.

Professional Society/Organization Membership and Service

President, Board of Directors, Arkansas Crop Protection Association (2010-2011)
President, Arkansas Entomological Society (2011)
Program Chair, Arkansas Entomological Society (2011)
Program Chair, Arkansas Crop Management Conference (2010)
Co-organized symposium “Transcending Geography with Regional Projects”. National Meeting of the Entomological Society of America. San Diego, CA. Dec 14, 2010.
Subject Editor, Journal of Agricultural and Urban Entomology, 2009-2011
National Institute Food and Agriculture—Pest Management Alternatives Program Grant Review Panel (April 26-30, 2010, Washington, D.C.)
ESA-SEB Student Awards Committee. 2010.
ESA Sponsorship Committee. 2009.
Moderated numerous sessions at professional meetings.
Judged numerous student paper and poster competitions at professional meetings.

Departmental/University Service

University of Arkansas

University of Arkansas Division of Agriculture Website Development Committee (2011)
Department of Entomology Graduate Admissions Committee (2009-2011)
Department of Entomology Awards and Scholarships Committee (2007-2008)
Insect Festival (Fayetteville, AR), Oct 7, 2010
Two Entomology Graduate Student Tours-- August 18, 2009 and August 17, 2011

University of Arkansas at Monticello

Judge/Timekeeper— 2007, 2008, 2009 UAM Collegiate Farm Bureau Discussion Meets
Promotion Committee for SEREC Technicians-- 2008 (Chair), 2009, and 2011
Search Committee/Interview Panel for SEREC Accountant position (2008)

Mississippi State University

Vice-President, Mississippi State Entomology Club (2000)
President, Mississippi State Entomology Club (2001)
MSU Linnaean Team (ESA-SEB, 2001-2002)
Alternate/Coach, MSU Linnaean Team (ESA-SEB, 2003)

HONORS AND AWARDS

Southern Region IPM Center 2011 “Friends of IPM—Pulling Together” Award. Lorenz, G.M., D.S. Akin, G. Studebaker, R. Leonard, F. Musser, A. Catchot, D. Cook, J. Gore, R. Jackson, G. Snodgrass, S. Stewart, and K. Tindall.

1st Place Oral Presentation (Graduate Student J.E. Howard). Effects of simulated threecornered alfalfa hopper (*Spissistilus festinus* Say) injury on soybean yield. 1st Annual MEA-MWSS-MAPPAN Joint Meeting. October 24-25, 2011.

Finalist for John Henry Comstock (Outstanding Graduate Student) Award. 79th Annual Meeting of the Southeastern Branch of the Entomological Soc of America. Mar 2005.
2nd Place, display. Seasonal expression profiles of Bt toxins in terminal leaves of Bollgard II[®] cotton. Mississippi Ag. Pest Mgt. Assoc. February 17-19, 2004.

Gary A. Herzog Ph.D. student award—honorable mention, oral presentation. Temporal expression profiles and bioactivity of single (Bollgard®) and dual-toxin (Bollgard II®) Bt cotton. 2004 Beltwide Cotton Conf. January 5-9, 2004.

1st Place, Oral Presentation. Seasonal Cry protein expression in transgenic Bt cottons. 50th Annual Conf. of Mississippi Entomol. Assoc., November 3-5, 2003.

Redd Insect Pest Management Scholarship (\$750)—November 4, 2003.

Robert T. Gast Award-- 1st Place, Ph.D. oral presentation. Efficacy of Bollgard II® cotton against occasional lepidopteran pests. 77th Annual Meeting of the Southeastern Branch of the Entomological Society of America. March 9-12, 2003.

2nd Place, display. Profiling expression of Cry2Ab in bolls of Bollgard II® cotton. Mississippi Ag. Pest Mgt. Assoc. February 18-20, 2003.

Gary A. Herzog Ph.D. student award—honorable mention, oral presentation. Profiling expression of Cry proteins in bolls of cotton expressing two toxins of *Bacillus thuringiensis* var. *kurstaki*. 2003 Beltwide Cotton Conf. January 6-10, 2003.

H. C. Mitchell Entomological Memorial Scholarship (\$1000)—October 28, 2002.

2nd Place, oral presentation. Mapping expression of Cry proteins in single and dual-toxin transgenic Bt cotton. 49th Annual Conf. of Mississippi Entomol. Assoc., October 28-30, 2002.

Team member, MSU Weed Team (2nd place). 2002 SWSS Weed Contest. Greenville, MS.

3rd Place, display. Field comparison of non-Bt, Bollgard®, and Bollgard II cottons. Mississippi Ag. Pest Mgt. Assoc. February 18-20, 2002.

1st Place, oral presentation. Quantification of toxin levels among plant parts in cotton expressing one and two ICP's of *Bacillus thuringiensis*. 48th Conf. of Mississippi Ent. Assoc., November 13-15, 2001.

Alternate, MSU Weed Team (1st place). 2001 SWSS Weed Contest. Winnsboro, LA.

1st Place, display. Field efficacy of Bollgard II® cotton. Miss. Ag. Pest Mgt. Assoc. 2001.

Honorable Mention, oral presentation. Behavioral response of Lepidopteran pests on cottons expressing ICP's of *B. thuringiensis*. 2001 Beltwide Cotton Conf. Jan 2001.

"Managing Innovation in Agribusiness", Kenan-Flagler Business School (University of North Carolina at Chapel Hill, 2000)

3rd Place, oral presentation. Activity of Bollgard II® cotton against various lepidopteran pests. 47th Conf. of Mississippi Entomol. Assoc., November 14-16, 2000.

Team member, MSU Weed Team (3rd place). 1999 SWSS Weed Contest. Greenville, MS.